

SINGLE AND MULTI-POLAR IMPLANTABLE LEAD FOR SACRAL NERVE ELECTRICAL STIMULATION

ABSTRACT OF THE DISCLOSURE

An implantable medical lead for stimulation of the sacral nerves comprises a lead body which includes a distal end and a proximal end, and the distal end having at least one electrode contact extending longitudinally from the distal end toward the proximal end. The lead body at its proximal end may be coupled to a pulse generator, additional intermediate wiring, or other stimulation device. The electrode contact of the permanently implantable neurostimulation lead comprises an elongated, flexible, coiled wire or mesh electrode having an exposed electrode length that is adapted to be inserted through the foramen from a posterior access to locate the coiled wire electrode alongside the sacral nerve extending anteriorly and/or posteriorly therefrom. The coiled wire or mesh electrode structure is flexible and bendable to enable its placement through through the foramen and alongside the sacral nerve and to conform to the surrounding nerves and tissue. Preferably, further shorter length electrodes are provided along the distal segment of the lead body to enable testing of the positioning of the elongated wire coil or mesh electrode or to provide alternate stimulation electrodes upon dislocation of the elongated wire coil or mesh electrode.